

# BIOMEDICAL SCIENCES-BS-NUTRITION SCIENCE EMPHASIS

THIS IS A **GENERAL** CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.

Year One			
<sup>1</sup> <b>BIO 120</b> General Biology I Prerequisites: High school chemistry, CHM 109, or CHM 115 strongly recommended (CHM 109 or 115 may be taken concurrently)	4 (6)	<b>BMS 105</b> Basic Nutrition <b>CHM 116</b> Principles of Chemistry II Prerequisites: CHM 115 and (MTH 122 or MTH 125 or MTH 201)	3 5 (7)
<b>CHM 115</b> Principles of Chemistry I Prerequisites: High school chemistry and (MTH 110 or MTH 122 or MTH 125 or MTH 201)	4 (6)	<b>STA 215</b> Introductory Applied Statistics Prerequisite: MTH 110 or equivalent	3
<sup>2</sup> <b>MTH 122</b> College Algebra Prerequisite: MTH 110 or assignment through Grand Valley math placement	3	<b>WRT 150</b> Strategies in Writing	4
Gen Ed	3		
<sup>3</sup> Elective	1		
<i>Numbers noted within (parentheses) are contact hours</i> <b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Year Two			
<b>BMS 208</b> Human Anatomy Prerequisite: BIO 120	3	<b>BMS 290</b> Human Physiology Prerequisites: BMS 208 and two semesters of chemistry	3
<b>CHM 241</b> Organic Chemistry for Life Sciences I Prerequisite: CHM 116	5 (7)	<b>BMS 291</b> Laboratory in Human Physiology Prerequisite: BMS 290 or concurrent registration	1 (3)
<sup>2</sup> <b>MTH 123</b> Trigonometry Prerequisite: MTH 122 or assignment through Grand Valley math placement (MTH 122 may be taken concurrently)	3	<b>CHM 242</b> Organic Chemistry for Life Sciences II Prerequisite: CHM 241	4 (6)
Gen Ed	3	<sup>3</sup> Elective	3
Gen Ed	3	Gen Ed	
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>14</b>
Year Three			
<b>CHM 461</b> Biochemistry I Prerequisite: CHM 242 or CHM 247 and CHM 248	4	<b>BMS 212</b> Introductory Microbiology Prerequisites: BIO 120 and (CHM 230 or CHM 232 or CHM 241)	3
<b>PHY 220</b> General Physics I Prerequisites: MTH 122 and MTH 123	5 (7)	<b>BMS 213</b> Laboratory in Microbiology Prerequisite: BMS 212 or concurrent enrollment	1 (4)
<sup>4</sup> <b>BMS</b> Nutrition Elective (BMS 407 see reverse)	3	<b>PHY 221</b> General Physics II Prerequisite: PHY 220	5 (7)
<sup>3</sup> Elective	3	<sup>4</sup> <b>BMS</b> Nutrition Elective (BMS 305, 306, 404, or 415 see reverse)	3 3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Year Four			
<b>BIO 375</b> Genetics/ <b>BIO 376</b> Genetics Laboratory Prerequisites: BIO 120. Concurrent enrollment in BIO 376 is required	3/1 (6)	<sup>4</sup> <b>BMS</b> Nutrition Elective (BMS 305, 306, 404, or 415 see reverse)	3
<b>OR BIO 355</b> Human Genetics (lecture only) Prerequisite: BIO 120 or BIO 103, or permission of instructor	3	Issue	3
<sup>5</sup> <b>BMS 495</b> Concepts in Wellness (Capstone) SWS Prerequisites: BMS 208, BMS 212, BMS 290 or 291, and senior standing	3	Gen Ed	3
<sup>4</sup> <b>BMS</b> Nutrition Elective ( BMS 305 or 306, see reverse)	3	<sup>3</sup> Elective	3
Gen Ed	3	<sup>3</sup> Elective	3
Issue	3		
<b>Total</b>	<b>15-16*</b>	<b>Total</b>	<b>15</b>

\*The block tuition rate is for 12-15 credits. You will pay additional tuition for any credits over 15

<sup>1</sup> CMB 155+156 can sub for BIO 120 for those students interested in research (with advisor approval)

<sup>2</sup> Students who have AP/IB/dual enrollment credit for MTH 201 (Calculus I), or complete the MTH 122 and 123 proficiency tests, only need to complete STA 215. MTH 124 will substitute for MTH 122 and MTH 123.

To take the Math Proficiency Tests online, visit this link: [gvsu.edu/s/mv](https://gvsu.edu/s/mv)

<sup>3</sup> Elective refers to any course that will help you earn the required 120 credits to graduate

<sup>4</sup>Students must choose **4 out of the 5** following Nutrition elective courses:

**BMS 305** - Clinical Nutrition: Offered fall and winter semesters. Prerequisites: BMS 290 or BMS 251 and (CHM 232 or CHM 230 or CHM 461).

**BMS 306** - Advanced Human Nutrition: Offered fall and summer semester. Prerequisites: BMS 290 or MOV 304, and CHM 232 or CHM 461.

**BMS 404** - Community Nutrition: Offered winter semester. Prerequisites: BMS 105 and junior standing. *Sophomores may request an override to the junior standing prerequisite, which may be considered on a case-by-case basis.*

**BMS 407** - Nutrition in the Life Cycle: Offered fall semester. Prerequisites: BMS 105 or 305 or 306; and either BMS 290/291 or BMS 251.

**BMS 415** - Nutrition and Physical Performance: Offered winter and summer semesters. Prerequisites: BMS 251 or BMS 290; and CHM 232 or CHM 461.

<sup>5</sup>Students must complete a total of two courses with an SWS attribute

**Declaring the BMS Major with Nutrition Emphasis:**

1. In myBanner, select "Student" > "Student Records" > "Change Major" > "Change Major 1/Program"
2. Choose "Biomedical Science-BS Nutrition" from the drop-down box.
3. Click "Submit" and then "Change to New Program"
4. Declare "**PreProfessional Preparation**" as your SECOND MAJOR if you are planning on medical, dental, pharmacy, or optometry school.

**General Education Overlap**

General Education Categories fulfilled by the Biomedical Sciences Major:	
Life Sciences with Lab: BIO 120	Physical Sciences with Lab: CHM 115
Mathematical Sciences: STA 215, MTH 122, MTH 123	
Additional Overlap for Pre-Professional Students	
Social and Behavioral Sciences: PSY 101 and SOC 101	

**Pre-Professional Students**

(Pre-Chiropractic, Pre-Dental, Pre-Medical, Pre-Optometry, Pre-Pharmacy, Pre-Podiatry, & Pre-Veterinary)

***Keep in mind that you may major in anything so long as you complete the pre-requisites for your professional program.***

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly.

**The CLAS Academic Advising Center is located in C-1-120 MAK, 616-331-8585**

**<http://www.gvsu.edu/clasadvising> (Also find us on Facebook and Twitter!)**

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To schedule an appointment with a Biomedical Sciences and/or Pre-Professional Advisor in the CLAS Academic Advising Center, visit [www.gvsu.edu/clasadvising](http://www.gvsu.edu/clasadvising) and click on "Schedule Appointment"

To find more information on Pre-Professional programs, visit [www.gvsu.edu/clasadvising/preprofessional](http://www.gvsu.edu/clasadvising/preprofessional)